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"Polyhydroxyalkanoate Biosynthesis Associated Proteins
And Coding Region In *Bacillus Megaterium*"
By: Maura C. Cannon, et al.
U.S.S.N. 09/479,040, filed January 7, 2000
Atty. Docket No. MOBT 212

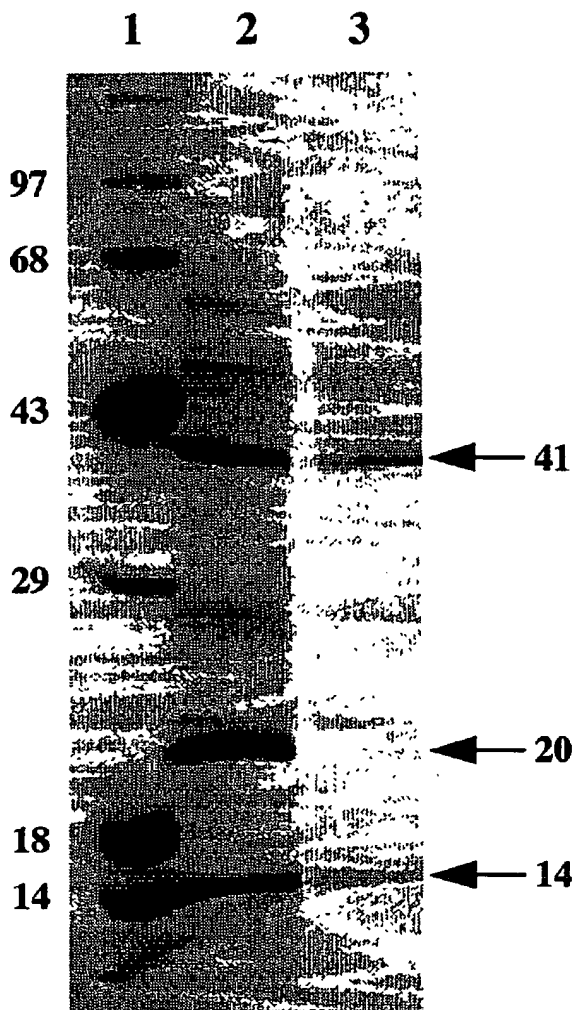


FIGURE 1



"Polyhydroxyalkanoate Biosynthesis Associated Proteins
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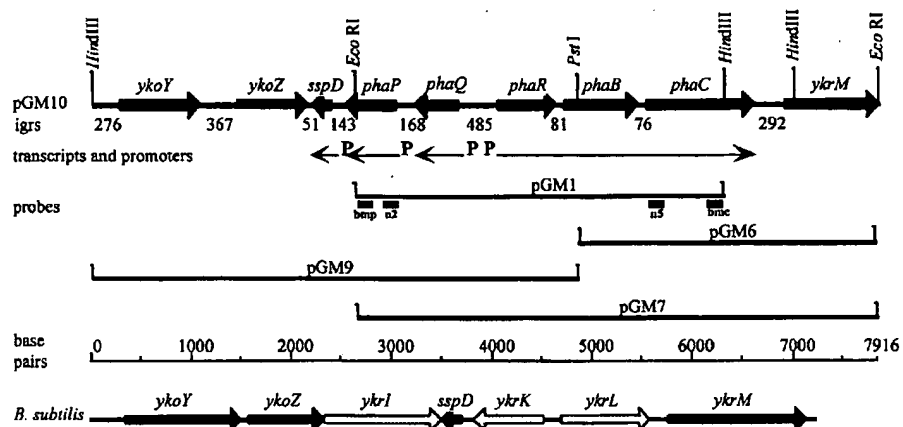


FIGURE 2A



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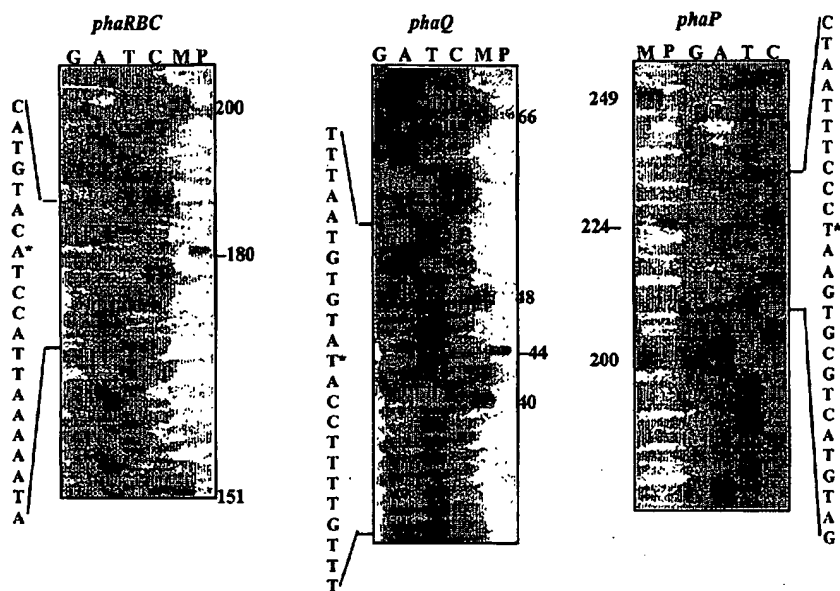


FIGURE 2C



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B.meg. AIPYVQWEK-----DKS-----MPS-----YKSS-----FKRA----- 31
P.ole. SNKNNILQRQASENTLGLNPVIGIRKDDLSARTVLRQAVRQPLHSAKHVAHFGLEKQNVLLGKSLAFSDRRRFNDPWSNNPLYRVLQTLAW 100

B.meg. -----ET-----TEAEFEVQIT-----P-----E-----TWKKNK 55
P.ole. RKELDQWIGNSDLSQDISRGQFVINLMEAMATNLSNPAAVKRFETGCKSLDGLSNLADLVNNGGMPQVNMDAFEVGKNLGTSECVYRNDV 200

B.meg. AIVYRTHVKDNIEKTLILYALNSPILNTHGNTVELNHRGFDVYLLIGTGLEDNMPDNTMYPKAKKVRITSKSPPSVTHVNA 155
P.ole. LEHQEADIEQVLAHLLVPPQINNFVHLSSEKSLAKCHRSQQTFISLRNITKAQREWISTATALKHVDAAITGSDGNMAALSP 299

B.meg. ---TMTSIFSAINDLPKNIFMTPTFSDTGLYGALLDRYFNLLAVDTFGNIPTMDFGNKM-LKIFTFYGPYITLVDRSENQRFVESW 249
P.ole. ITCTALVGHYSAKCHN-KVNAITLLVVLITTMNQVAHMEQILEAAER-HSYQAGVLGSEMAKVFAWMINDLTWNYVNNYLLQNEPPVFDL- 395

B.meg. MQHVAIGIFFAGEYRQWIRDFYQCKDNGEELNARKVDENNRANLNIASRDLIAHVAALMDAVSSEDTYKLOTNTVSVVFGDCA-V 347
P.ole. F-ENNTITRLPA-SFHGDLEMPKSLPTRPDALNCTPIDILQVLCDEYSLAGTNLITVSCYRSAHLFGGKIIFVISNSHIIQSILNIPGNP 491

B.meg. ETYPISG-----DEKDS-----K----- 362
P.ole. ARFMTGILRPGDPVAWQENATKHADSWWLHWVIGFSAAGELEKAPTRLGNRAYAAGEASFQTVYIER 559

FIGURE 3



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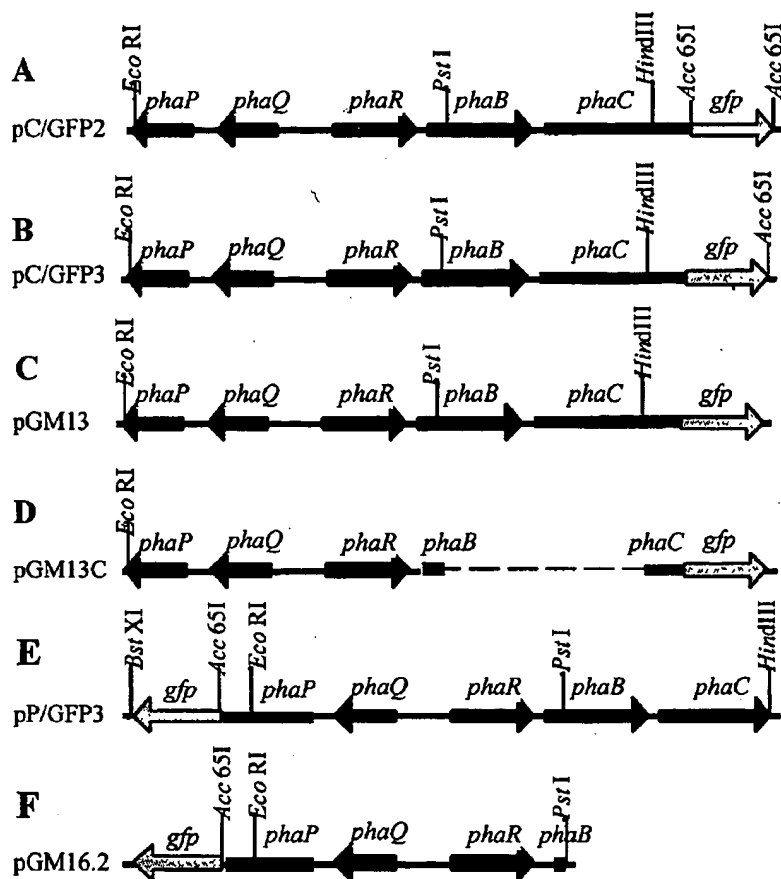


FIGURE 4



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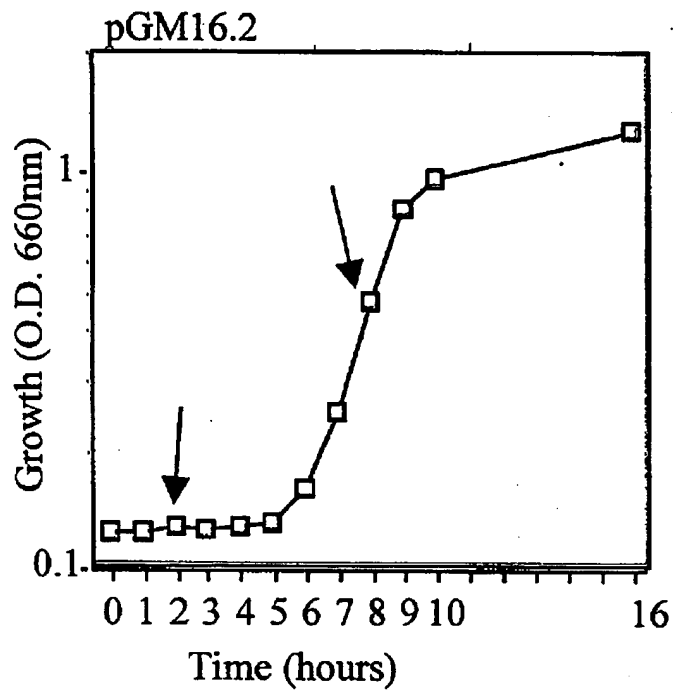


FIGURE 5



*"Polyhydroxyalkanoate Biosynthesis Associated Proteins
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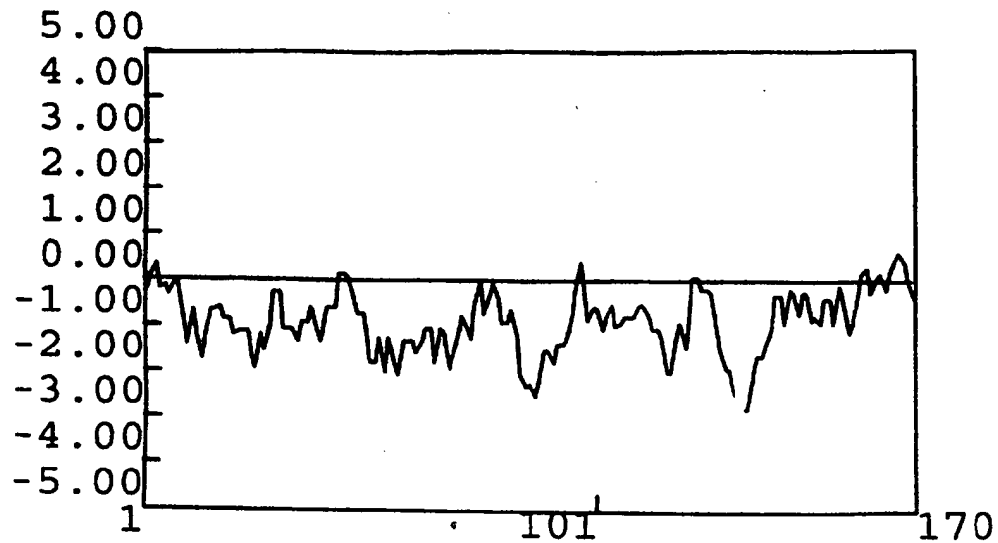


FIGURE 6



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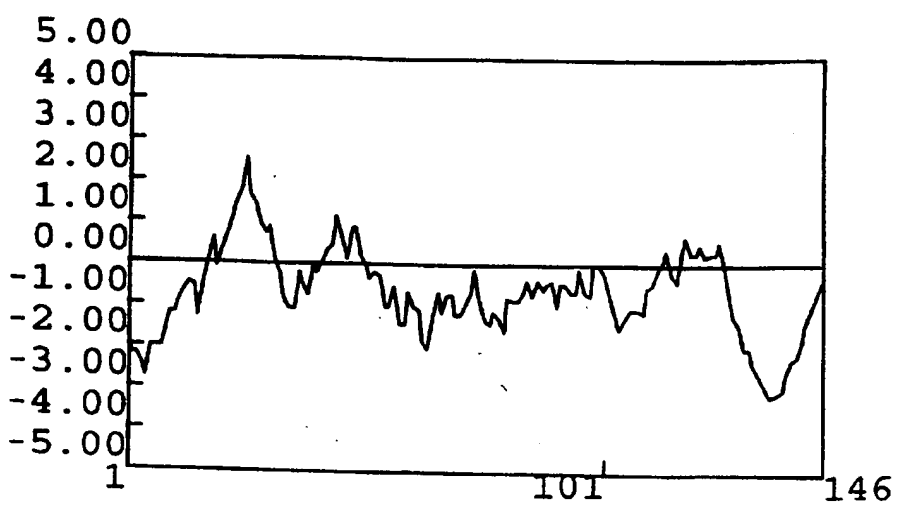


FIGURE 7



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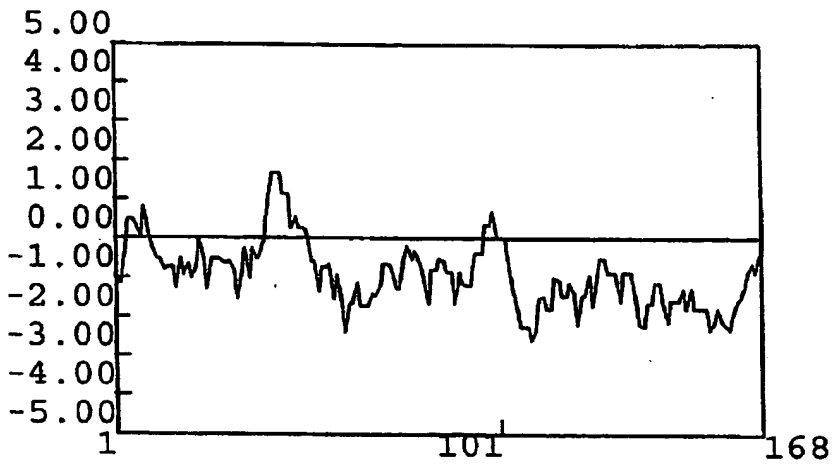


FIGURE 8



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PhaC_Bm	MAIPYVQEWELIKSMPSEYKSSARRFKRAYEIMTTEAPEVGLTPKEVIWKNKAKLYR
PhaC_Tv	-----MRPIDIRPDKLAQEMLDYTSKLGQGMENLLNADAIDTGVSPKEAVYSEDKLVLYR
	.. * * * * * * *
PhaC_Bm	Y-TPVKDNLHKTPILLVYALINKPYILDTPGNSLVEYLLNRGFDVYLLDWGTPGLEDSN
PhaC_Tv	YDTPAGVTPQKTPELLIVYALVNRPYMTDIQEDRSTIKGLLATGQDVYLLDWGYPDQADSA
	* * * * * * * *
PhaC_Bm	MKLDYIVDYIPKAAKVLRTSKSPDLSVLGYCMGGTMTSIFAAALNEDLPKKNLIFMTSP
PhaC_Tv	LTLDYINGYIDSCVDYLCETHEVDQVNLIGICQGGAPSLMYASLHPDK-VKNLVTMTVP
	. * * * * * * * * *
PhaC_Bm	FDFSDTG-LYGAFLLDDRYFNLDKAVDTFGNIPPEMIDFGNKMLKPITNFYGPVYTLVDRS
PhaC_Tv	VDFKTPGNLLSAWVN--VDIDLAVDTMGNIPEGELLNWTFLSLKPFSLTGQKYVNMVDM
	** * * * * * * * * * * * * * * * *
PhaC_Bm	ENQRFVBSWKLQKWVADGIPPAGEAYRQWIRDFYQQNKLINGELEVRGRKVDLKNIKAN
PhaC_Tv	DDPDKVNFLRMEKWIIFDSPDQAGETFRQFTKDFYQKNGFINGGVKLGKKEIDLKNVDCP
	. * * * * * *
PhaC_Bm	ILNIAASRDHIAMPHQVAALMDAVSSEDKEYKLLQTGHVSVVFGPKAVKETYPYSGDWLE
PhaC_Tv	VLNIYALQDHLVPPDASKALNPWSAARTYTELAFFGGHIGIYVSGKAQKEVTPAIGKWL
	. * * * * * * * *
PhaC_Bm	KRSK
PhaC_Tv	ERS-
	**

FIGURE 9



Proposed Pathway for Production of PHA C4/C6 Copolymer from Acetyl-CoA

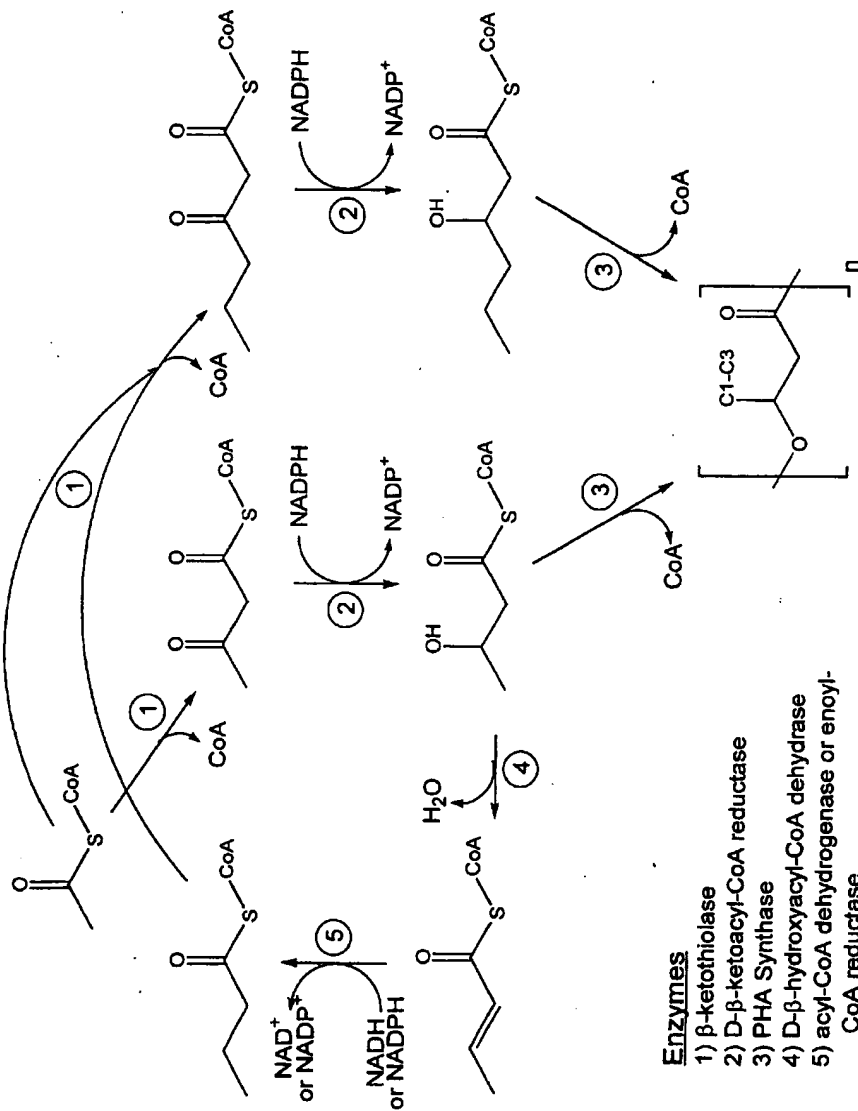


FIGURE 10